

Index to Current Science, Volume 67, July–December 1994

AUTHOR INDEX

- Abdul-Khalik *see* Janardhanan, K. K.
 Achyuthan, Hema 606 (Research communication)
 Agarwal, G. S. 288 (Book review, Pancharatnam memorial issue)
 Agrawal, Ashok K. *see* Sah, Renu
 Aiyer, P. V. Seshu 972 (Article, special section)
 Akela, B. P. *see* Yadav, S. M. P.
 Amar Deep *see* Pandit, M. K.
 Ambika, G. 489 (News)
 Anand Kumar, T. C. 618 (Personal news)
 Anand, Anuranjan 15 (Commentary)
 Ananthakrishnan, T. N. 69 (News)
 Anderson, J. G. *see* Khattri, K. N. (343)
 Anil Kumar *see* Ganguly, P.
 Arunachalam, Subbiah 479, 747 (Book reviews); 977 (News)
 Awasthi, A. K. *see* Vineet Kumar
 Awasthi, D. N. 551 (Book review)
 Awasthi, N. 1018 (Scientific correspondence)
 Bal, Madhusmita 1018 (Research communication)
 Balaram, P. 409 (Personal news); 502 (Article, special section)
 Balasubramanian, A. 583 (Scientific correspondence)
 Balasubramanian, D. 512 (Article, special section)
 Banerjee, T. K. 48 (Research communication)
 Banerji, Pradipta 386 (Article, special section)
 Barua, A. K. 894 (Article, Condensed matter science special issue)
 Basu, B. K. *see* Sinha, U. N.
 Berry, Michael 220 (Article, Pancharatnam memorial issue)
 Bhandari, Rajendra 224 (Article, Pancharatnam memorial issue)
 Bharadwaj, P. V. R. *see* Sinha, U. N.
 Bhargava, Purnima 10, 490 (Research news)
 Bhat, H. L. 887 (Article, Condensed matter science special issue)
 Bhattacharyya, A. *see* Sekar, B.; Yadav, R. R.
 Bhattacharyya, S. P. *see* Dutta, P.
 Bhojwani, Sant S. 684 (News)
 Bonde, S. D. 78 (Scientific correspondence)
 Brune, J. N. 395 (Article, special section); *see* Khattri, K. N. (343)
 Burma, D. P. 681 (Correspondence)
 Burman, Shibdas 208 (Book review)
 Chakrabarti, Bikas K. 839 (Condensed matter science special issue)
 Chakraborty, Tapash 858 (Article, Condensed matter science special issue)
 Chander, Ramesh 306 (General article); 531 (Research article)
 Chandrasekaran, A. R. 353 (Article, special section)
 Chandrasekaran, C. G. *see* Navaneethakrishnan, C.
 Chandrasekhar, S. 495, 497 (Commentary)
 Chandrashekar, C. S. *see* Sinha, U. N.
 Char, M. B. S. 5 (Correspondence)
 Chatterjee, B. 50 (Research communication)
 Chatterji, Dipankar 770 (Correspondence)
 Chatterji, S. D. 930 (Article, special section)
 Chattopadhyay, M. K. 13 (Research news)
 Chauhan, Onkar S. 462 (Research communication)
 Chauhan, T. P. S. 689 (Scientific correspondence)
 Chimanika, Sunita Rani 472 (Research communication)
 Cohen-Tannoudji, Claude 282 (Article, Pancharatnam memorial issue)
 Cowsik, R. 421 (News)
 Curtis, L. C. *see* Radhakrishna, B. P.
 Das, Manoj K. *see* Bal, Madhusmita
 Das, P. K. 53 (Book review)
 Dasannacharya, B. A. 896 (Article, Condensed matter science special issue)
 Dattatrayam, R. S. 107 (Research communication)
 David, Sunil A. 710 (General article)
 Day, Peter 434 (General article)
 De, Deepesh N. 109 (Research communication)
 Deb, B. M. 427 (Commentary)
 Deb, Mrinal K. 1020 (Research communication)
 Deshpande, M. R. *see* Joshi, U. C.
 Devaraju, T. C. *see* Ugarkar, A. G.
 Dhaubhadel, S. *see* Khanna, Vijay K.
 Dobhal, Rajendra 71 (News)
 Dutta Roy, S. D. 403 (Book review)
 Dutta, P. 166 (Review article)
 Eapen, J. T. *see* Valiathan, M. S. (99)
 Farooqui, Parveen 5 (Correspondence); *see* Palni, L. M. S.; Shivanna, K. R.
 Fathima, Mujeera *see* Balasubramanian, A.
 Feuerstein, Marie-Therese 708 (Reprinted article)
 Gadgil, Sulochana *see* Sinha, U. N.
 Gahlaui, V. K. *see* Chander, R. (531)
 Ganeshaiah, K. N. 975 (Correspondence)
 Ganguly, P. 202 (Research communication)
 Garg, Arti *see* Rao, R. R.
 Garg, G. K. *see* Khanna, Vijay K.
 Gaur, Vinod K. 311, 324 (Articles, special section)
 George, S. *see* Ganguly, P.
 Ghosh, Arundhati 441 (Research article)
 Ghosh, Dolly *see* Pathak, Manas K.
 Ghosh, Rekha *see* De, Deepesh N.
 Ghosh, Rupamanjari 520 (Review article)
 Ghosh, Sudhamoy *see* Pathak, Manas K.
 Giri, C. C. 542 (Research communication)
 Girish Chandra *see* Ramakrishnan, S.
 Goel, O. P. *see* Joshi, Mallikarjun
 Gopalan, C. 152 (Commentary)
 Gowda, G. D. Veerappa 476 (Book review)
 Goyal, A. *see* Sinha, U. N.
 Gujar, A. R. *see* Chauhan, Onkar S.
 Gupta, Ashok K. *see* Uppal, P. K.
 Gupta, Bhagwati P. 714 (Review article)
 Gupta, H. P. *see* Anuradha
 Gupta, R. C. *see* Vikram Kumar
 Halkoaho, T. A. A. *see* Ugarkar, A. G.
 Hanna, Mendoza Ordetta *see* Balasubramanian, A.
 Hannaford, P. 276 (Article, Pancharatnam memorial issue)
 Hari Narain 766 (Correspondence)
 Hasnain, Syed K. 189 (Research communication)
 Hewish, A. 698 (General article)
 Hieu, Do Trong 706 (General article)

- Horgan, John 500 (Commentary)
- Iyengar, M. A. *see* Rao, P. Gundu
- Iyengar, R. N. 157 (Commentary); 368 (Article, special section)
- Jaiswal, O. R. *see* Iyengar, R. N. (368)
- Janardhanan, K. K. 465 (Research communication)
- Jeetendra E. *see* Kartha, C. C. (620)
- Jena, K. K. 744 (Research communication)
- Jeyasingh, D. E. P. 305 (Scientific correspondence)
- Jha, N. *see* Chatterjee, B.
- Jha, Sudhanshu S. 841 (Condensed matter science special issue)
- John, C. K. 685 (Scientific correspondence)
- John, P. I. 573 (Research news)
- Joshi, Kirti 957 (Article, special section)
- Joshi, Mallikarjun 185 (Research communication)
- Joshi, Nanda B. *see* Sreenivasan, Rajesh
- Joshi, Preeti G. *see* Sreenivasan, Rajesh
- Joshi, U. C. 251 (Article, Pancharatnam memorial issue)
- Kachhwaha, Sumita 116 (Research communication)
- Kale, B. K. 492 (Opinion)
- Kale, V. S. 682 (Correspondence)
- Kamble, V. P. *see* Dattatrayam, R. S.
- Kannupandi, T. *see* Shanmugam, A.
- Kar, Anand 199 (Research communication)
- Kartha, C. C. 411 (Personal news); 620 (Historical commentary and notes); *see* Valiathan, M. S. (99)
- Karthikeyan, M. *see* Laal, A. K.
- Karun, Anitha 118 (Research communication)
- Kashyap, S. K. 995 (Review article)
- Katiyar, J. C. *see* Anuradha
- Kaul, S. N. 867 (Article, Condensed matter science special issue)
- Kausnik, B. D. *see* Venkataraman, Sujatha
- Kesavan, P. C. 480 (Personal news)
- Khadkikar, A. S. *see* Phansalkar, V. G.
- Khan, M. A. 46 (Research communication)
- Khanna, Vijay K. 1003 (Research article)
- Khattri, K. N. 343 (Article, special section); 590 (Research article)
- Khosho, T. N. 577 (Commentary)
- Khosla, Ashu *see* Sahni, Ashok
- Kibble, B. P. 270 (Article, Pancharatnam memorial issue)
- Kodali, S. *see* Khanna, Vijay K.
- Korobko, V. G. *see* Kashyap, S. K.
- Kothari, S. L. *see* Kachhwaha, Sumita
- Krishna, S. S. 213 (Book review)
- Krishnaswamy, S. 764 (Correspondence)
- Kshirsagar, Anupama *see* Pappu, Shanti
- Kulkarni, C. P. 1013 (Research communication)
- Kumar Murty, V. 82 (General article)
- Kumar, A. 836 (Condensed matter science special issue)
- Kumar, M. *see* Chatterjee, B.
- Kumaran, K. P. N. *see* Bonde, S. D.
- Kumarasamy, D. *see* Jeyasingh, D. E. P.
- Kuppers, Manfred *see* Paliwal, Kailash
- Laal, A. K. 193 (Research communication)
- Leggett, A. J. 785 (General article)
- Lakshmanan, M. 989 (General article)
- Madhusudana, N. V. 259 (Article, Pancharatnam memorial issue); 832 (Article, Condensed matter science special issue)
- Mahajan, Swadesh M. 502 (Article, special section)
- Maiti, Mrinal K. *see* Pathak, Manas K.
- Mannikeri, M. S. *see* Vaidya, A. S.
- Manohar, C. 834 (Article, Condensed matter science special issue)
- Manohar, C. S. *see* Iyengar, R. N. (368)
- Martouret, D. *see* Nadarajan, L.
- Masani, P. R. 917, 920 (Articles, special section)
- Mascarenhas, A. F. *see* John, C. K.
- Mathan, V. I. *see* David, Sunil A.
- Mathur, Ram Raj *see* Rao, I. B. Ramaprasada
- McCrea, W. H. 941 (Article, special section)
- Mehrotra, R. C. *see* Awasthi, N.
- Mishra, B. K. *see* Chatterjee, B.
- Mishra, Meenal *see* Sinha, Anshu K.
- Mohamed, U. V. K. *see* Nair, Shikha
- Mohan Ram, H. Y. 58 (Personal news)
- Mohanadoss, C. *see* Achyuthan, Hema
- Moharir, P. S. 19 (General article)
- Mukherjee, B. K. *see* Kulkarni, C. P.
- Mukherjee, Dalia *see* Banerjee, T. K.
- Mukhopadhyay, Kingsuk 602 (Research communication)
- Murali, K. *see* Lakshmanan, M.
- Murali Krishna, Kalaga *see* Mukhopadhyay, Kingsuk
- Muralimohan, G. Uma 609 (Research communication)
- Murthy, M. R. N. 148 (News)
- Murugesan, T. 301, 573 (Correspondence)
- Nadarajan, L. 610 (Research communication)
- Nadgauda, R. S. *see* John, C. K.
- Nagendra, R. *see* Achyuthan, Hema
- Nair, R. R. *see* Valiathan, M. S. (99)
- Nair, Shikha 201 (Research communication)
- Nambiar, A. R. *see* Sukumaran, P. V.
- Narasimha, Roddam 6 (Correspondence)
- Narasimhan, N. S. 772 (Correspondence)
- Narasimhan, R. 677 (Correspondence); 937 (Article, special section); 954 (Book review, special section)
- Narayanan, P. S. *see* Raghavendra Prasad, B.
- Narlikar, A. V. 900 (Article, Condensed matter science special issue)
- Narlikar, J. V. 950 (Article, special section)
- Naushin, Fauzia *see* Janardhanan, K. K.
- Nautiyal, S. P. *see* Sati, D.
- Navaneethakrishnan, C. 44 (Research communication)
- Nayak, R. *see* Ghosh, Arundhati
- Newman, Stuart A. 205 (Book review)
- Nigam, Amar Nath 127 (Historical commentary and notes)
- Nigam, N. C. 335 (Article, special section)
- Nityananda, Rajaram 238 (Article, Pancharatnam memorial issue); 767 (Correspondence); *see* Ramaseshan, S. (219)
- Notani, N. K. *see* Rathos, M. J.
- Ovais, M. *see* Chinania, Sunita Rani
- Padhi, B. K. 572 (Correspondence)
- Paithankar, Abhijit T. 585 (General article)
- Paliwal, Kailash 29 (Review article); *also* erratum 133; *see* Sivaguru, M.
- Palni, L. M. S. 425 (News)
- Pancharatnam, S. 285 (Reproduced article, Pancharatnam memorial issue)
- Pandey, K. N. 149 (Correspondence)
- Pandit, M. K. 1015 (Research communication)
- Pandya, Sunil K. 302, 571 (Correspondence)
- Pant, Giribala *see* Farooqui, Parveen
- Pappu, Shanti 431 (Scientific correspondence)
- Parnaik, Veena K. 53, 125 (Book reviews); 303, 979 (Research news)
- Parthasarathy, M. D. *see* Shakuntala, Katre

- Pathak, Manas K. 470 (Research communication)
 Patnaik, Rajeev 538 (Research communication)
 Patra, Ashok K. 545 (Research communication)
 Pegg, D. T. 272 (Article, Pancharatnam memorial issue)
 Phansalkar, V. G. 460 (Research communication)
 Pisharoty, P. R. 126 (Book review); 763 (Correspondence)
 Prasanna, A. R. 765 (Correspondence)
 Prathap, G. 678 (Correspondence); 749 (Personal news)
 Qureshi, M. A. 400 (Book reviews)
 Radhakrishna, B. P. 695 (Commentary)
 Radhakrishnan, T. S. 891 (Article, Condensed matter science special issue)
 Radhakrishnan, V. 255 (Article, Pancharatnam memorial issue)
 Raghavendra Prasad, B. 35 (Research communication)
 Raghu, C. N. 162 (General article)
 Raghu Varman, A. *see* Deb, Mrinal K.
 Raghunathan, M. S. 123 (Book review)
 Raghuvver, S. *see* Raghavendra Prasad, B.
 Rajagopalan, G. *see* Sekar, B.
 Rajalakshmy, S. *see* Sinha, U. N.
 Raju, A. *see* Sinha, U. N.
 Ramachandra, K. 454 (Research communication)
 Ramachandran, Arcot 983 (Commentary)
 Ramakrishnan, S. 865 (Article, Condensed matter science special issue)
 Ramakrishnan, T. V. 56 (Personal news); 516 (Article, special section); 796 (Preface, Condensed matter science special issue); 871 (Article, *ibid*)
 Ramalingaswami, V. 123 (Book review)
 Ramasarma, T. 24 (Review article)
 Ramaseshan, S. 219 (Foreword, Pancharatnam memorial issue); 633 (Article, special section); 682, 785 (Editorial notes); 798 (Article, Condensed matter science special issue)
 Ramasubramanian, K. 302 (Correspondence)
 Ramaswamy, K. *see* Janardhanan, K. K.
 Ramaswamy, Sriram 827 (Article, Condensed matter science special issue)
 Ranade, Dilip M. *see* Paithankar, Abhijit T.
 Ranganath, G. S. 231 (Article, Pancharatnam memorial issue)
 Ranganathan, S. 884 (Article, Condensed matter science special issue)
 Rao, B. Nagamalleswara 535 (Research communication)
 Rao, Ch. M. *see* Chauhan, Onkar S.
 Rao, C. N. R. 405 (Personal news); 821 (Article, Condensed matter science special issue)
 Rao, C. V. N. K. *see* Shankar, K.
 Rao, I. B. Ramaprasada 446 (Research article)
 Rao, K. R. 775 (News); 876 (Article, Condensed matter science special issue)
 Rao, K. Srinivasa 771 (Correspondence)
 Rao, K. Subba 773 (Correspondence)
 Rao, K. Vasudeva 679 (Correspondence)
 Rao, P. Gundu 616 (Book review)
 Rao, R. R. 80 (Scientific correspondence)
 Rathos, M. J. 540 (Research communication)
 Raychaudhuri, A. K. 863, 886 (Articles, Condensed matter science special issue)
 Reddy, C. N. *see* Muralimohan, G. Uma
 Reddy, G. M. *see* Giri, C. C.
 Rego, T. J. *see* Patra, Ashok K.
 Roy, B. *see* Tandon, V.
 Roy, Rustom 690 (Commentary)
 Sachdeva, S. T. 987 (Scientific correspondence)
 Sadasivan, T. S. 552 (Historical reminiscences); 619 (Book review)
 Sah, Renu 598 (Research article)
 Sahni, Ashok 456 (Research communication)
 Sajini, K. K. *see* Karun, Anitha
 Salvi, Dilip M. 149 (Correspondence)
 Sanwal, G. G. *see* Sah, Renu
 Sanyal, M. K. 880 (Article, Condensed matter science special issue)
 Sarasamma, V. R. *see* Sinha, U. N.
 Sarkar, S. K. *see* Laal, A. K.
 Sarkar, Saumendra N. 196 (Research communication)
 Sathe, Vijay *see* Pappu, Shanti
 Sati, D. 39 (Research communication)
 Sauna, Zuben E. *see* Kale, B. K.
 Schneider, Hans *see* Paliwal, Kailash
 Sekar, B. 36 (Research communication)
 Selvamani, John Peter *see* Shanmugam, A.
 Series, G. W. 265 (Article, Pancharatnam memorial issue)
 Seth, Prahlad K. *see* Sah, Renu
 Shaila, M. S. *see* Ghosh, Arundhati
 Shakuntala, Katre 60 (Personal news)
 Shankar, K. 687 (Scientific correspondence)
 Shankar, K. M. 95 (Research article)
 Shankar, R. 976 (Correspondence)
 Shanmugam, A. 612 (Research communication)
 Sharat Chandra, H. *see* Anand, Anuranjan
 Sharma, R. N. 616 (Book review)
 Sharma, S. D. 358 (Article, special section)
 Sharon, Maheshwar *see* Mukhopadhyay, Kingsuk
 Shivakumar, K. *see* Valiathan, M. S. (99)
 Shivanna, K. R. 683 (News)
 Siddhartha, V. 682 (Correspondence)
 Sikdar, Malabika *see* Kar, Anand
 Sikdar, S. K. *see* Sarkar, Saumendra N.
 Sikka, S. K. 874 (Article, Condensed matter science special issue)
 Singh, B. N. *see* Joshi, Mallikarjun
 Singh, Lalji 753 (Personal news)
 Singh, N. B. *see* Anuradha
 Singh, Ranbir 149 (Correspondence)
 Singh, Sarva Jit 330 (Article, special section)
 Sinha, Anshu K. 721 (Research article)
 Sinha, R. 380 (Article, special section)
 Sinha, U. N. 178 (Research article)
 Sinha, V. P. *see* Khan, M. A.
 Sitaramam, V. *see* Kale, B. K.
 Sivaguru, M. 398 (Research communication)
 Soman, C. R. 575 (Commentary)
 Sood, Ajay K. 823 (Article, Condensed matter science special issue)
 Sorkhabi, Rasoul B. 402 (Book review)
 Sreenivas, B. 89 (Research article)
 Sreenivasar, Rajesh 740 (Research communication)
 Srinivas, M. D. *see* Ramasubramanian, K.
 Srinivas, S. *see* Rao, I. B. Ramaprasada
 Srinivasan, R. 860 (Article, Condensed matter science special issue); 771 (Correspondence); 908 (Personal news)
 Srinivasan, R. *see* Sreenivas, B.
 Sriram, M. S. *see* Ramasubramanian, K.
 Srivastava, P. N. 508 (Article, special section)
 Subbarao, E. C. 16 (Commentary)
 Subrahmanya, K. R. 527 (Research article); 773 (Correspondence)
 Subramanian, C. K. *see* Raghavendra Prasad, B.
 Subramanian, K. R. *see* Sinha, U. N.
 Subramanyam, R. B. 153 (Commentary)
 Subramanyam, S. V. 844 (Article, Condensed matter science special issue)

- special issue); *see* Ramakrishnan, T. V. (796)
- Sudha, G. *see* Phansalkar, V. G.
- Sukumaran, P. V. 105 (Research communication); 976 (Correspondence)
- Sunder, R. *see* Sinha, U. N.
- Suresh, K. A. 978 (Research news)
- Tan, Do Ngoc *see* Hieu, Do Trong
- Tandon, V. 548 (Research communication)
- Tapia, S. 245 (Article, Pancharatnam memorial issue)
- Tembe, B. L. *see* Paithankar, Abhijit T.
- Tewari, S. K. *see* Vineet Kumar
- Thayyen, Renoj J. *see* Hasnain, Syed I.
- Thosar, B. V. 751 (Personal news)
- Tyagi, R. C. *see* Khan, M. A.
- Ugarkar, A. G. 605 (Research communication)
- Uppal, P. K. 79 (Scientific correspondence)
- Vaidya, A. S. 735 (Research communication)
- Valdiya, K. S. 313 (Article, special section)
- Valiathan, Ashima, *see* Sachdeva, S. T.
- Valiathan, M. S. 99 (Research article); 981 (Commentary)
- Varshney, U. *see* Vinay Kumar, N.
- Venkataraman, Sujatha 120 (Research communication)
- Venkataraman, V. 855 (Article, Condensed matter science special issue)
- Venkatesh, T. N. *see* Sinha, U. N.
- Verma, Meera *see* Chauhan, T. P. S.
- Verma, N. C. *see* Rathos, M. J.
- Vidyasagar, M. 769 (Correspondence)
- VijayRaghavan, K. *see* Gupta, Bhagwati P.
- Vijayan, M. 1215 (Personal news)
- Vikram Kumar 852 (Condensed matter science special issue)
- Vinay Kumar, N. 728 (Research communication)
- Vineet Kumar 546 (Research communication)
- Virdi, N. S. 402 (Book review)
- Viswanathan, K. S. 262 (Article, Pancharatnam memorial issue)
- Yadav, M. P. *see* Uppal, P. K.
- Yadav, R. R. 112, 739 (Research communications)
- Yadav, S. M. P. 614 (Research communication)
- Yamamoto, T. *see* Shankar, K. M.
- Young, D. A. B. 967 (Article, special section)
- Yu, G. *see* Khattri, K. N. (343)
- Zeng, Y. *see* Khattri, K. N. (343)
- Zhra, Kaneez *see* Anuradha

SUBJECT INDEX

Articles in Commentary, Historical commentary and notes, News, Opinion, Research news; Books reviewed and letters in Correspondence and Scientific correspondence are also listed by title alphabetically under the respective category name.

Active galactic nuclei 251 (Article, Pancharatnam memorial issue)
 Aflatoxin 609 (Research communication)
 Algebraic numbers 454 (Research communication)
 Alginate encapsulation technique 542 (Research communication)
 Alkaline complex 44 (Research communication)
 Alternate splicing 995 (Review article)
 Aluminium tolerant rice cultivars 398 (Research communication)
 Anisotropic media 231 (Article, Pancharatnam memorial issue)
Arabidopsis thaliana 470 (Research communication)
 Armenia 157 (Commentary)
 Arsenopyrites 605 (Research communication)
 Aseismic design 358 (Article, special section)
 Atom matter wave interferometry 276 (Article, Pancharatnam memorial issue)
 Atomic vapours 265 (Article, Pancharatnam memorial issue)
 Auriferous zone 46 (Research communication)
 Baker's theory 454 (Research communication)
 Bamboo 685 (Scientific correspondence)
 Barley 116 (Research communication)
 Beach placers 535 (Research communication)
Beauveria bassiana 546 (Research communication)
 Biaxial crystals 231 (Article, Pancharatnam memorial issue)
Bombyx mori 546 (Research communication); 689 (Scientific correspondence)

Book reviews

Annual Review of Cell Biology, Vol. 9, 1993 125
Annual Review of Entomology, Vol. 39, 1994 213
Annual Review of Physical Chemistry, Vol. 44, 1993 53
Ayurvedic Drugs and their Plant Sources 616
China Bound, A Guide to Academic Life and Work in the PRC 479
Collected Works of S. Pancharatnam 288
Endomyocardial Fibrosis 123
The Future of Large Projects in the Himalaya—Overcoming Incomplete Knowledge and Unsound Beliefs 400
Geology of the Lower Himalaya 402
Life Cycles: Reflections of an Evolutionary Biologist 205
High Dams in Himalaya—Environment and Sociocultural Implications 400
Himalayan Tectonics 402
Limitation of Exposure in Ionizing Radiation 53
Measurements Principles and Practices 403
Numerical Integration IV 476
Our Place in the Cosmos: The Unfinished Revolution 616
The Physics of Karma 126
Proceedings of the Seminar on Petroliferous Basins of India 551
Proceedings (Mathematical Sciences), (K. G. Ramanathan Memorial Issue) 123
Risk Communication—A Handbook for Communicating Environmental Safety and Health Risks 748
Russian/Soviet Nuclear Warhead Production 208
Science and Engineering Indicators 747
State of India's Environment—A Citizens Report No. 3. Floods, Flood Plains and Environmental Myths 400

Brockhouse, Bertram 775 (News)
 Bromide 545 (Research communication)
 Camptonite dyke 44 (Research communication)
 Carbon gain 29 (Review article)
 Cell cycle phases 740 (Research communication)
 Chandrasekhar, S. 500 (Commentary)
Channa punctatus 614 (Research communication)
 Chaos 489 (News); 989 (General article)
Chlorella pyrenoidosa 609 (Research communication)
Cirrhinus mrigala 472 (Research communication)
 Classical optics 798 (Article, Condensed matter science special issue)
 Coconut zygotic embryos 118 (Research communication)
 Coherence 262, 265 (Articles, Pancharatnam memorial issue)
 Coherent structure 489 (News)
 Cold shock proteins 13 (Research news)
 Colloidal suspensions 823 (Article, Condensed matter science special issue)

Commentary

Acute toxicity of vitamin A in infancy 152
 Armenia: a travelogue 157
 Challenges of user-driven R & D: BARC model 16
 Earth science scenario in India: A perspective 74
 India and the new global balance 690
 India's biodiversity: Tasks ahead 577
 Low cost housing and infrastructure sustainable cities: A global perspective 983
 The new mineral policy 695
 Newton and Michelangelo 497
 Profile: Subrahmanyan Chandrasekhar 500
 QUEST: Quality University Education for Scientific Talent 427
 On reading Newton's *Principia* at age past eighty 495
 Sex, flies and neuronal fates 15
 The snake heart affair 981
 Surat—will we learn the lessons? 575
 Technology development trends in India: Past, present and future 153

Composite fault plane solution 306 (General article)
 Condensed matter physics 900 (Article, Condensed matter science special issue)
 Condensed matter science 839 (Article, Condensed matter science special issue)
 Conducting polymers 844 (Article, Condensed matter science special issue)
 Conduit system 189 (Research communication)
 Contact aureole 185 (Research communication)

Correspondence

Accountability in medical research 302
 Creation of excellence in science in India (NSU) 763
 Darwin and Newton: Portraits of similar strokes 975
 Enhancing S&T coverage 149
 Geochemical basis of tropical endomyocardial fibrosis 976
 Indian planetary theory 302
 NSU: Is it a solution? 677

- NSU: The Mahajan proposal 679
 The National Science University 681
 The National Science University—A holistic conceit? 678
 National Science University—Imported drug for an impoverished patient? 765
 Optimal utilization of young researchers' potential 572
 Pancharatnam 682
 Plagiarism 682
 Poverty of Indian chemistry periodicals 301
 The proposal for a National Science University—some comments 766, 767, 769, 770, 771, 772, 773
 QAIS—Quick access information system database of CSIR 573
 Raising science in India à la NSU: the hunting of the Snark 764
 The recent plague epidemic—Was there gross scientific incompetence? 571
 Science must grow with quality and benefit to mankind 5
 Some reflections on earth science education in India 976
 Support NSU but! 766
- Cosmical numbers 941 (Article, special section)
 Cosmological constant 950 (Article, special section)
 Cosmos 616 (Book review)
 Critical frequency 446 (Research article)
Crocodylus palustris 687 (Scientific correspondence)
 Crucifer seed oil 470 (Research communication)
 CSAMT 446 (Research article)
Cuscuta reflexa 583 (Scientific correspondence)
 Cyanobacterium 120 (Research communication)
 Cybernetics 937 (Article, special section)
Cyprinus carpio 1020 (Research communication)
- Delhi-Haridwar subsurface ridge 39 (Research communication)
 Dendrochronology 112 (Research communication)
 Design parameter 353 (Article, special section)
 Dhosa oolites 460 (Research communication)
 Difference reduction 937 (Article, special section)
 Diffraction 978 (Research news)
 Diophantus 957 (Article, special section)
 Dislocation source 330 (Article, special section)
 DNA 303 (Research news)
 Double critical point 836 (Article, Condensed matter science special issue)
Drosophila 714 (Review article)
Drosophila melanogaster 15 (Commentary)
- Earth science scenario, India 74 (Commentary); 976 (Correspondence)
 Earthquake prediction 531 (Research article)
 Earthquake-resistant design 311 (Article, special section)
 Edible trematodes 548 (Research communication)
 Electronic library system 977 (News)
 Embryo rescue 744 (Research communication); 1003 (Research article)
 End-stage transition 6 (News)
 Endomyocardial fibrosis 67 (In this issue); 99 (Research article); 123 (Book review); 976 (Correspondence)
 Epitope analysis 95 (Research article)
 Equilibrium phase transitions 823 (Article, Condensed matter science special issue)
 Equine influenza virus 79 (Scientific correspondence)
Eremostachys superba 80 (Scientific correspondence)
Escherichia coli 13 (Research news); 490 (Research news)
- Family planning 706 (General article)
 Fatty acid composition 470 (Research communication)
- Faunal affinity 735 (Research communication)
 Female sterilization 706 (General article)
 Fermat's Last Theorem 82 (General article)
 Ferromanganese micronodules 462 (Research communication)
 Fish skin 48 (Research communication)
 Fluorescence 270 (Article, Pancharatnam memorial issue)
 Fluorescence microscopy 109 (Research communication)
 (5)-Fluorouracil 441j (Research article)
 Forestry for food 71 (News)
 Fractal dimensions 107 (Research communication)
 Fullerene-based tubules 602 (Research communication)
 Fullerenes 150 (Research news); 563 (In this issue); 602 (Research communication)
- Gadag gold field 605 (Research communication)
 Galaxy formation 941 (Article, special section)
 Geometric phase 224 (Article, Pancharatnam memorial issue)
 Gibberellic acid 1003 (Research article)
 Global Circulation Model T-80 178 (Research article)
 Glycosaminoglycans 1020 (Research communication)
 Gradient-driver algorithms 166 (Review article)
 Granulocyte-colony stimulating factor 995 (Review article)
 Growth ring 739 (Research communication)
- Haemoglobin concentration 614 (Research communication)
 Haemopoietic growth factors 995 (Review article)
 Heavy metal salt toxicity 48 (Research communication)
 Heavy mineral ratios 535 (Research communication)
 Heavy-fermion systems 865 (Article, Condensed matter science special issue)
 Hedgehogs 714 (Review article)
 Hematoporphyrin derivative 740 (Research communication)
 Heteropigmentation 606 (Research communication)
 Heterostructures 855 (Article, Condensed matter science special issue)
 High temperature superconductivity 871 (Article, Condensed matter science special issue)
 High temperature superconductors 785 (General article); 891 (Article, Condensed matter science special issue)
 Himalayan elevation 306 (General article)
 Himalayan tectonics 402 (Book review)
- Historical commentary and notes**
 Causes of the failure of Rayleigh-Jeans radiation formula as speculated by some physicists and the ultimate answer from Einstein 127
 From the annals of plague 620
- Historical reminiscences**
 Down memory lane 552
- History and Theory of Heavens 917 (Article, special section)
 Hodgkin, Dorothy Crowfoot 215 (Personal news)
 Host-parasite association 583 (Scientific correspondence)
 Human filariasis 1018 (Research communication)
 Human glioblastoma 740 (Research communication)
- Ilmenite 105 (Research communication)
 Imipramine-binding protein 598 (Research article)
 Immunodiagnosis 1018 (Research communication)
 India's biodiversity 577 (Commentary)
 Indian Academy of Sciences 636 (Article, special section)
 Indian National Science Academy 657 (Article, special section)
 Indian chemistry periodicals 301 (Correspondence)
 Indian industry 492 (Opinion)
 Indian planetary theory 302 (Correspondence)

Indian science directory 162 (General article)
 Information lacunae 10 (Research news)
 Inoculum potential 552 (Historical reminiscences)
 Instrumentation 876 (Article, Condensed matter science special issue)
 Intellectual property rights 577 (Commentary)
 Intergeneric hybrid 744 (Research communication)
 Interplanetary weather 698 (General article)
 Interplate deformation 527 (Research article)
 Invar and anti-Invar problem 867 (Article, Condensed matter science special issue)
 Ionizing radiation 53 (Book review)
 IPN virus 95 (Research article)

Kimberlitic diatreme 50 (Research communication)

Ladakh Himalaya 721 (Research article)
 Lameta Formation 456 (Research communication)
 Laser cooling 282 (Article, Pancharatnam memorial issue)
 Latur earthquake 380 (Article, special section)
 Leaf gas exchange 29 (Review article)
 Lebesgue's integration theory 930 (Article, special section)
 Lemaître, Abbe' Georges 950 (Article, special section)
 Lightflecks 29 (Review article)
 Lilaceous inflorescence 78 (Scientific correspondence)
 Liquid crystals 832 (Article, Condensed matter science special issue)
 Liquid dispersions 834 (Article, Condensed matter science special issue)
 Low cost housing 983 (Commentary)
 Low temperatures, condensed matter research 860 (Article, Condensed matter science special issue)

Maastrichtian ostracode 456 (Research communication)
 Macromolecular crystallography 148 (News)
 Magmatic cycles 1015 (Research communication)
 Magnesium deficiency 99 (Research article)
 Magnetism 867 (Article, Condensed matter science special issue)
 Maharashtra earthquake 368 (Article, special section)
 Malani Suite 1015 (Research communication)
 Mapping technique 698 (General article)
 Marine ostracoda 735 (Research communication)
 Martian 785 (General article)
 Medical research, accountability 302 (Correspondence)
 Melanophore indexing 48 (Research communication)
 Melanophores 472 (Research communication)
 Melt waters 189 (Research communication)
 Mesoscopic systems 858 (Article, Condensed matter science special issue)
 Metal insulator transition 863 (Article, Condensed matter science special issue)
 Metamorphism 185 (Research communication)
 Metapelitic assemblages 89 (Research article)
 Microtillering 116 (Research communication)
 Middle Holocene sub-fossil bone 431 (Scientific correspondence)
 Midgut epithelium 201 (Research communication)
 Miller paradox 19 (General article)
 Minimizing earthquake risk 324 (Article, special section)
 Modelling behaviour 937 (Article, special section)
 Modulated birefringence 285 (Reproduced article, Pancharatnam memorial issue)
 Molecular dynamic simulations 874 (Article, Condensed matter science special issue)
 Molecular dynamics 585 (General article)
 Molecular electronics 844 (Article, Condensed matter science

special issue)
 Monsoon forecasting 178 (Research article)
 Moss garden 5 (News)
 MRI dentistry 987 (Scientific correspondence)
 Multi-component ground motion 335 (Article, special section)
 Multifunction enzymes 24 (Review article)

Nanoregions 900 (Article, Condensed matter science special issue)
 National Academy of Sciences 673 (Article, special section)
 National Science University (NSU) 502, 503, 508, 512, 516 (Articles, special section); 763 (Correspondence)
 National Science University (NSU) 677, 678, 679, 681 (Correspondence)
 Neotethys 721 (Research article)
 Neuronal fates 15 (Commentary)
 Neuronal sodium channels 196 (Research communication)
 Neutralizing monoclonal antibodies 95 (Research article)
 Neutron scattering 775 (News)
 Nevada earthquake hazard 395 (Article, special section)
 New mineral policy 695 (Commentary)
 Newton and Michelangelo 497 (Commentary)
 Newton's *Principia* 495 (Commentary); 975 (Correspondence)

News

Brainstorming session in plant senescence—A report 425
 Comet Shoemaker-Levy 9 collision with Jupiter: Pre- and post-crash observations by IIA 421
 Discussion meeting on macromolecular crystallography—A report 148
 An experimental 'moss garden' in Nainital 5
 Forestry for food: Challenges for 2000 AD and beyond 71
 IAU Telegrams from India on Shoemaker-Levy 9 impact with Jupiter 141
 India's first Polar Satellite IRS-P2 launched by PSLV-D2 565
 ISI and IBM join hands to develop an electronic library system 977
 Nobel prize in physics 775
 A report on the brainstorming session in the area of Plant Reproductive Biology 683
 A report on the VIII International Congress of Plant Tissue and Cell Culture 684
 A report on the seminar on 'Biological control of social forestry and plantation crop insects' 69
 A report on the workshop on end-stage transition 6
 In tune with the saga of chaos ... 489

Nitrate movement 545 (Research communication)
 NLO materials 887 (Article, Condensed matter science special issue)
 Non-neutral plasmas 573 (Research news)
 Non-zero integers 82 (General article)
 Nonlinear optics 887 (Article, Condensed matter science special issue)
 Nonlinear systems 989 (General article)
 Northpole temperature 1013 (Research communication)
Nostoc calcicola 120 (Research communication)
 Notani, N. K. 480 (Personal news)
 Nuclear envelope 979 (Research news)
 Nuclear transport 979 (Research news)
 Numerical integration 476 (Book review)

Oligodeoxyribonucleotides 728 (Research article)

Opinion

Succour to Indian industry by sharing scientific and social information 492

Optically pumped atoms 262 (Article, Pancharatnam memorial issue)

Optoelectronics 841 (Article, Condensed matter special issue)

Organic matter content 36 (Research communication)

Origin of life 616 (Book review)

Origin of species 975 (Correspondence)

Orthogonal polymers 476 (Book review)

Oryza sativa 744 (Research communication)

Paleosols 89 (Research article)

Pancharatnam achromatic retarders 245 (Article, Pancharatnam memorial issue)

Pancharatnam, S. 290 (Article, Pancharatnam memorial issue)

Pancharatnam in Mysore 259 (Article, Pancharatnam memorial issue)

Patch-clamp technique 196 (Research communication)

Pauling, Linus 405, 409, 411 (Personal news)

Pedogenic modifications 538 (Research communication)

Peninsular seismicity 590 (Research article)

Personal/Academy/Society news

Anil Ramanbhai Sheth (an obituary) 618

Biology and Linus Pauling 405

Chintamani Nagesa Ramachandra Rao, a tribute on his sixtieth birthday 56

A gifted experimentalist and human being (an obituary of P. S. Narayanan) 908

An intellectual aristocrat (an obituary of B. R. Seshachar) 58

Karl Raimund Popper (1902–1994)—The philosopher of critical rationalism and rational moderation 749

Linus Pauling (1901–1994)—A colossus in chemistry and an unparalleled crusader 405

Linus Pauling and vitamin C 411

Nihal Kishinchand Notani (an obituary) 480

An outstanding scientist and great humanist (an obituary of Dorothy Crowfoot Hodgkin) 215

Sir Karl Popper—Philosopher of science (an obituary) 751

Subramanyan Suryanarayanan (1927–1994) (an obituary) 619

A teacher, a scientist and a guide, as I knew him (an obituary of Sachi Prasad Ray-Chaudhuri) 753

A titan amongst zoologists (an obituary of B. R. Seshachar)

Phase conjugation 778 (Article, Condensed matter science special issue)

Phase grating 978 (Research news)

Phase shifts 276 (Article, Pancharatnam memorial issue)

Phase transitions 874 (Article, Condensed matter science special issue)

Photonics 841 (Article, Condensed matter science special issue)

Photopolarimetric investigations 251 (Article, Pancharatnam memorial issue)

Phytoplankton 193 (Research communication)

Pityospermum Nathorst 305 (Scientific correspondence)

Plagiarism 682 (Correspondence)

Plague 571 (Correspondence); 575 (Commentary); 620 (Historical commentary and notes); 710 (General article)

Plant reproductive biology 683 (News)

Plant senescence 425 (News)

Plate tectonics 721 (Research article)

Poincaré sphere 220, 231, 255 (Articles, Pancharatnam

memorial issue)

Poincaré sphere 231 (Article, Pancharatnam memorial issue)

Polarization optics 220 (Article, Pancharatnam memorial issue)

Polarization optics 238 (Article, Pancharatnam memorial issue)

Polymers 827 (Article, Condensed matter science special issue)

Popper paradoxes 19 (General article)

Popper, Karl Raimund 749, 751 (Personal news)

Post-Gondwana tectonics 527 (Review article)

Proteases 1018 (Research communication)

Protein disulphide isomerase 24 (Review article)

Protein solubilization 598 (Research article)

PSLV-D2 565 (News)

QAIS 573 (Correspondence)

QBO signal 1013 (Research communication)

Quantum chemistry 166 (Review article)

Quantum correlations 520 (Review article)

Quantum dots 858 (Article, Condensed matter science special issue)

Quantum nonlocality 785 (General article)

Quantum optics 282 (Article, Pancharatnam memorial issue)

Quantum theory of dispersion 272 (Article, Pancharatnam memorial issue)

Quasicrystals 884 (Article, Condensed matter science special issue)

QUEST 427 (Commentary)

Quinacrine 631 (In this issue); 706 (General article)

Quisqualis indica 583 (Scientific correspondence)

Radiations and condensed matter 896 (Article, Condensed matter science special issue)

Radio astronomy 255 (Article, Pancharatnam memorial issue)

Radiocarbon dating 36 (Research communication)

Raman phase conjugator 3 (In this issue); 35 (Research communication)

Ramanujan, S. 967, 972 (Articles, special section)

Ramapithecus punjabicus 538 (Research communication)

Rana tigrina 472 (Research communication)

Rao, C. N. R. 56 (Personal news)

Ray-Chaudhuri, Sachi Prasad 753 (Personal news)

Rayleigh-Jeans radiation 127 (Historical commentary and notes)

Reproductive biology 685 (Scientific correspondence)

Research news

Cold shock proteins from microorganisms 13

Licence to replicate DNA 303

Non-neutral plasmas 573

Repairing information lacunae: Coupling of transcription with repair 10

A resolution of the strong CP and the U(1) problems 426

Scanning tunnelling microscopy studies of the fullerene C₆₀ 150

Sigma⁷⁰ of *E. coli*: Many more wonders 490

Strategies for regulating nuclear entry of transcription factors 979

The ubiquitous phase grating 978

Rhizosphere effect 552 (Historical reminiscences)

Rice protoplast culture 542 (Research communication)

Rinderpest virus 441 (Research article)

Royal Institution 434 (General article)

S&T coverage 149 (Correspondence)

Sahnioxylon 739 (Research communication)

Scanning probe microscopy 880 (Article, Condensed matter

science special issue)
 Scanning tunnelling microscopy 150 (Research news)
 Science academies of India 631 (In this issue); 633 (Article, special section)
 Science communication 434 (General article)

Scientific correspondence

Abnormal growth response in the host-parasite association 583
 Applications of magnetic resonance imaging in dentistry 987
 Can *Eremostachys superba* be saved from extinction? 80
 Characterization of structural proteins of A/Equine-2/Ludhiana/87 79
 Discovery of a Middle Holocene sub-fossil bone from Tiruvallur Taluk, Chingleput District, Tamil Nadu 431
 First report of a fossil marsh crocodile *Crocodylus palustris* from the Manneru Valley, Andhra Pradesh 687
 A lilaceous inflorescence 78
 Occurrence of *Pityospermum* Nathorst in the Sriperumbudur Formation, Tamil Nadu 305
 Occurrence of segmental distortion in larvae and pupae after refrigeration of non-diapause eggs of silkworm *Bombyx mori* L. 689
 Reproductive biology: An aid in the classification of bamboos 685
 Scorodite 46 (Research communication)
 Second harmonic generation 887 (Article, Condensed matter science special issue)
 Secure communications 989 (General article)
 Seismic clusters 107 (Research communication)
 Seismic hazard 324, 343 (Articles, special section)
 Seismic studies 531 (Research article)
 Seismological stations 358 (Article, special section)
 Semiconductor physics 842 (Article, Condensed matter science special issue)
 Seshachar, B. R. 3 (In this issue); 58, 60 (Personal news)
 Sheth, A. R. 618 (Personal news)
 Shoemaker-Levy 9 141, 421 (News)
 Shull, Clifford Glenwood 775 (News)
 Silicon-germanium 855 (Article, Condensed matter science special issue)
 Silver staining 109 (Research communication)
 Social forestry and plantation crop insects 69 (News)
 Soft condensed matter 827 (Article, Condensed matter science special issue)
 Solar cells 894 (Article, Condensed matter science special issue)
 Solar photovoltaics 894 (Article, Condensed matter science special issue)
 Solid dispersions 834 (Article, Condensed matter special issue)
 Solid state physics 821, 871 (Articles, Condensed matter science special issue)
 South Indian strain measuring experiment 324 (Article, special section)
 Spatial variation 386 (Article, special section)
 Spinor phase 224 (Article, Pancharatnam memorial issue)
Spodoptera littoralis 610 (Research communication)
Spodoptera mauritia 201 (Research communication)

Spotted munia 199 (Research communication)
 Squeezing quantum interference 520 (Review article)
 Sriperumbudur Formation 305 (Scientific correspondence)
 Statistical mechanics 839 (Article, Condensed matter science special issue)
Steneosaurus 460 (Research communication)
 Sterile water 118 (Research communication)
 Stochastic Cosmos 920 (Article, special section)
 Strain release 39 (Research communication)
Streptomyces rimosus 540 (Research communication)
Stromateus argentens 1020 (Research communication)
 Strong ground motion parameters 311 (Article, special section)
 Strong motion data 353 (Article, special section)
 Strong motion earthquake parameters 335 (Article, special section)
 Strong-motion earthquakes 313 (Article, special section)
 Superconductivity 202 (Research communication)
 Suryanarayanan, Subramanyan 619 (Personal news)
 Synergism 610 (Research communication)
 Technology development, India 153 (Commentary)
 Tectonic elements 590 (Research article)
 Tiger shrimp 612 (Research communication)
 Trace elements 548 (Research communication)
 Traditional constructions 380 (Article, special section)
 Traditional harmonic analysis technique 1013 (Research communication)
 Transcription factors 979 (Research news)
 Transputers 585 (General article)
 Tree ring 112 (Research communication)
Triticum aestivum 1003 (Research article)
 Two-dimensional systems 880 (Article, Condensed matter science special issue)
 University science education 427 (Commentary)
 Uracil DNA glycosylases (UDGs) 728 (Research article)
 User-driven R & D 17 (Commentary)
 Uttarkashi earthquake 343 (Article, special section)
 UV-induced tetracycline 540 (Research communication)
 Vacuum deposition 602 (Research communication)
 VAM fungi 465 (Research communication)
 Verlet algorithm 585 (General article)
 Vertical magnetic dipole 446 (Research article)
 Vitamin A 152 (Commentary)
 Vivotonin 552 (Historical reminiscences)
 Volcanic ash bed 687 (Scientific correspondence)
 Wave passage 386 (Article, special section)
 Wiener's mathematical work 930 (Article, special section)
 Wiener, Norbert—mathematical work 930 (Article, special section)
 X-ray crystallography 798 (Article, Condensed matter science special issue)
Yersinia pestis 710 (General article)
 Young researchers' potential 572 (Correspondence)
 Yucca mountain 395 (Article, special section)
 Zoogeography 735 (Research communication)



